



Printemps de la Cardiologie

RECHERCHE FONDAMENTALE & CLINIQUE

du lundi 1^{er}
au mercredi 3
juillet 2024

Lille
Grand Palais



GRRC
GROUPE
DE REFLXION
SUR LA RECHERCHE
CARDIOVASCULAIRE



Société
Française de
Cardiologie

Programme en date du 22 avril 2024

 **Lundi 1 juillet**

lun. 1 juil.
13:00 - 14:00 | **Parcours atypiques**
Auditorium Pasteur Session



Groupe 1

Groupe 2

lun. 1 juil.
13:00 - 14:00 | **Post-doc & carrière**
Session

Groupe 1

Groupe 2

lun. 1 juil.
14:30 - 15:30 | **Parcours atypiques**
Auditorium Pasteur Session

Groupe 1

Groupe 2

lun. 1 juil.
14:30 - 15:30 | **Concours**
Session

Groupe 1

Groupe 2

lun. 1 juil.
14:30 - 15:30 | **Post-doc & carrière**
Session

Groupe 1

Groupe 2

lun. 1 juil.
16:00 - 16:15 | **Ouverture du congrès**
Auditorium Pasteur Session officielle

lun. 1 juil.
16:15 - 16:45 | **Biomarqueurs de l'insuffisance cardiaque : du cœur au plasma sans oublier les mitochondries**
Auditorium Pasteur Conférence inaugurale

Modérateur : G. Lemesle (Lille, France)

16:15 | **Biomarqueurs de l'insuffisance cardiaque : du cœur au plasma sans oublier les mitochondries**
F. Pinet (Lille, France)

lun. 1 juil.
17:00 - 17:50 | **The dark side of the genome: new insights from the non-coding region in cardiac diseases**
Salle 1 Session

Modérateur : J. Barc (Nantes, France), F. Rochais (Marseille, France)

17:00 | **How the whole genome strategies can teach us on new cardiac diseases mechanism**
C. Bezzina (Amsterdam, Pays-Bas)

17:12 | **Regulatory rescue of Shox2 transcription in the developing sinoatrial node**
G. Andrey (Genève, Suisse)

17:24 | **Role of common variants and new genes associated with arrhythmogenic cardiomyopathy**

lun. 1 juil.
17:00 - 17:50 | **Prix de thèses & Bourses GRRC**
Session

lun. 1 juil.

17:00 - 17:50

Insuffisance cardiaque

Auditorium Pasteur Young investigators

Modérateur : S. Horman (Bruxelles, Belgique)

Heart and Mind at Risk: Decoding Channel Disruptions in the Food Poisoning Enigma

H. Benoit (Montpellier, France)

Sex differences in acute myocarditis in a french cohort

S. Viscogliosi (Lyon, France)

What is the role of Nitric Oxide in the physiological response of cardiac mitochondria to adrenergic stress ?

M. Gouin-gravezat (Avignon, France)

Exercise-induced pulmonary congestion is a promising marker to diagnose early stage heart failure in patients referred to rule out myocardial ischemia

lun. 1 juil.

18:00 - 19:30

Coeur et imagerie

Hall d'exposition Posters commentés

Effect of acute exercise prior to or during dialysis on myocardial stunning: a randomized controlled trial

M. Josse (Avignon, France)

The new imaging system Kratoscope: an elegant alternative approach to reconstruct heart structure

V. Aillerie (Nantes, France)

How do sonographers improve access to care in cardiology? An outpatient study

Reproducibility of the quantitative assessment of myocardial ^{99m}Tc-labeled diphosphonate uptake in patients with suspected transthyretin-related cardiac amyloidosis : a test-retest study

The assessment of echocardiographic clinical utility

New horizons in cardiovascular Behçet's disease: the promise of multimodality imaging in achieving accuracy

S. El-Mhadi (Rabat, Maroc)

Characterization of cardiac dysfunction in a hereditary mouse model of amyloidosis

Predicting Myocardial Infarction-Induced Fibrosis Through Speckle Tracking Echocardiography in Mice: A Proof-of-Concept Study

N. Perlin (Paris, France)

lun. 1 juil.

18:00 - 19:30

Vaisseaux, thrombose et hémostasie

Hall d'exposition Posters commentés

Modérateur : S. Germain (Paris, France), S. Horman (Bruxelles, Belgique)

Aortic endothelial cells response to pulsatile vs continuous flow at high shear stress

C. Le Tanno (Lille, France)

Impact of temperature on endothelial adhesion function: implication for sepsis

The platelet lipidome is critically altered during septic shock

Clonal hematopoiesis of indeterminate potential is associated with increased NETosis in patients with myocardial infarction

M. Dufossée (Pessac, France)

Study of the effects of a modulation of Acetyl CoA levels by bempedoic acid on platelet functions

C. Blavier (Woluwe-Saint-Lambert, Belgique)

One year mortality after stent thrombosis: a retrospective versus prospective comparison

The impact of Right Bundle Branch Block and SIQIII-type Patterns in Determining Risk Levels in Acute Pulmonary Embolism

Management and follow-up of abundant tuberculous pericardial effusions experience of a Moroccan care unit

Y. Ettagmouti (Casablanca, Maroc)

Quantification of endothelial cell adherens junction types using artificial intelligence

P. Boucher (Paris, France)

lun. 1 juil.
18:00 - 19:30

Rythmologie 1
Posters commentés

Modérateur : F. Brette (Montpellier, France), S. Ninni (Lille, France)

Metabolic programming of atrial fibrillation by a post-natal overfeeding mice model

Colchicine for Prevention of Atrial Fibrillation Recurrence Following Catheter Ablation: Identification of Sex-Specific Differences

Electrophysiological characterization of hiPSC-derived cardiac pacemaker cells from CPVT bradycardia-associated patients

N. Mekrane (Montpellier, France)

Combined in silico model of cardiac electrophysiological activity and modulation by the autonomic nervous system

In vitro and in vivo efficacy and cardiotoxicity evaluation of amiodarone-containing functional nanoparticles to target myocardium and to treat cardiac arrhythmia

Healthy-aging conditions might promote the prevention of aging-induced atrial inflammation and atrial fibrillation

Improved 1-year success of catheter ablation for persistent atrial fibrillation with Vein of Marshall ethanol infusion: a large observational study

Characterization of Purkinje-like cardiac cells derived from iPS cells from patients with Purkinje-induced idiopathic ventricular fibrillation

P. Belhumeur (Paris, France)

Altered ECG parameters with loss of cardiac variability and prolonged QTc in a non-diabetic chronic kidney disease rat model

Epicardial ablation of an endomyocardial ventricular tachycardia in the setting of Covid-19 infection

lun. 1 juil.

18:00 - 19:30

Insuffisance cardiaque clinique

Posters commentés

Contribution of the left atrioventricular coupling index in the prediction of atrial fibrillation in cardiac amyloidosis ATTR

Identification of anticancer drugs associated with heart failure: a WHO pharmacovigilance database analysis

Characteristics, prognosis of native valve infective endocarditis complicated by heart failure

Healthcare resource utilization and prognosis after heart failure decompensation according to gender. Insight from SNDS database

Do surgical or cloth masks alter ventilatory parameters during submaximal exercise? the PAM randomized trial

Epidemiologic data of a cohort of congestive heart failure hospitalised patients, three years monocentric study, comparison with regional data

Is karate a safe and effective method of cardiac rehabilitation in patients with heart failure and reduced ejection fraction? The KAREAD trial

Change in the epidemiological profile of pericardial effusions in a developing country : experience of Ibn Rochd hospital of Casablanca

Y. Etagmouti (Casablanca, Maroc)

ACCEPTCARDIO1 : Criteria Associated With Patient Willingness to Participate in Biomedical Research in cardiology

lun. 1 juil.

18:00 - 19:30

Valvulopathies mitrales et tricuspides

Posters commentés

Modérateur : R. Capoulade (Nantes, France), A. Coisne (Lille, France)

Sex differences in prognosis of patients with severe tricuspid regurgitation

Penicillin therapy effect on MMP-2 and TIMP-2 levels in Mitral restenosis after percutaneous mitral commissurotomy

Effects of percutaneous balloon mitral valvuloplasty on left ventricular and right ventricular deformation in patients with isolated and severe mitral stenosis : a speckle-tracking analysis

Characteristics, risk factors and outcomes of patients managed for left-sided infective endocarditis: a prospective study in a high-volume center

Emergent Transcatheter Mitral Valve Implantation: Early and Mid-term Outcomes

Transcatheter Mitral Valve Repair by TEER device for recurrent Eclipsed Mitral Regurgitation : a case report

U. maure (Eaubonne, France)

HREM is a thrilling new tool to assess a mouse model of carcinoid heart disease

M. Habib (Paris, France)

Overview of the risk of myocardial infarction in patients with aortic stenosis: Insights from the VALVENOR Registry

G. Lemesle (Lille, France)

Transcatheter edge-to-edge repair of tricuspid valve regurgitation in systemic right ventricle: Echocardiographic outcome

lun. 1 juil.
18:00 - 19:30

Athérosclérose

Posters commentés

Modérateur : C. Vindis (Toulouse, France)

Significance of copper homeostasis in pathophysiology of human aortic vascular smooth muscle cells: role in calcification and cell migration

I. Orlov (Amiens, France)

Comparison of incidence and prognostic impact of ischemic, major bleeding and heart failure events in patients with chronic coronary syndrome: Insights from the CORONOR registry

G. Lemesle (Lille, France)

Obesogenic diet increases atherosclerosis through promoting microbiota dysbiosis-induced gut lymphocyte trafficking into periphery

Intraplaque hemorrhage: A role for sleep apnea and physical activity in carotid plaques?

S. Surget (Villeurbanne, France)

ST-segment elevation in aVR and coronary patterns in acute coronary syndrome (Insights from 200 patients)

S. El-Mhadi (Rabat, Maroc)

Prevalence and epidemiological characteristics of psychoactive substance use in elderly patients: insight from the ADDICT-ICCU study

Phenotyping Coronary Plaque by Computed Tomography in Premature Coronary Artery Disease

Early development of atherosclerotic plaques in the coronary arteries after radiotherapy for breast cancer (BACCARAT study)

M.K.F. Honaryar (Villejuif, France)

Polymorphism of ABCA1 (I883M) is associated to lipid profile alteration in CAD patients without type 2 disease

Screening for arteriopathy obliterants of the lower limbs by measurement of the systolic pressure index in patients living with hiv on antiretrovirals at the fann regional research and training center

lun. 1 juil.

18:00 - 19:30

Ischémie reperfusion & inflammation

Posters commentés

Modérateur : C. Arnaud (Grenoble, France), F. Ivanès (Chambray-lès-Tours, France)

Inflammatory Bowel Disease Increases the Severity of Myocardial Infarction after Acute Ischemia-Reperfusion Injury in Mice

E. Messadi (Tunis, Tunisie)

Platelet GARP-dependent TGF β 1 activation regulates endothelial cells activation and heart inflammation following myocardial infarction

C. Dufeys (Bruxelles, Belgique)

FABP3 as a very early prognostic biomarker of ST-Segment Elevation Myocardial Infarction (STEMI): Kinetics matter

B. Scheppler (Lyon, France)

Trem2 drives accumulation of pro-fibrotic monocyte-derived macrophages in the infarcted myocardium

G. Rizzo (Würzburg, Allemagne)

Immune modulatory and tissue repair roles of neutrophils in experimental myocardial infarction

Involvement of nerve growth factor (NGF) in exercise-induced cardioprotection and its role in modulation of endothelial nitric oxide synthase (eNOS)

S. Rabiteau (Avignon, France)

Physical activity as an effective weapon against cardiac disorders in rheumatoid arthritis: a study in rat pristane-induced arthritis

C. Peyronnel (Besançon, France)

Osteopontin is a relevant prognostic biomarker in STEMI patients

Natriuretic-like Peptide Lebetin 2 Mediates M2 Macrophage Polarization in LPS-Activated RAW264.7 Cells in an IL-10-Dependent Manner

Development of an in vitro human cardiomyocyte model to mimic cardiac ischemia

Bone marrow adipocytes fuel emergency hematopoiesis after myocardial infarction

A. Paccalet (Boston, États-Unis)

lun. 1 juil.
18:00 - 19:30

Fonction vasculaire et endothélium

Posters commentés

Modérateur : J. Bellien (Rouen, France), C. Lemarié (Brest, France)

Cardiac and brain pericytes are able to regenerate over time

C. Bourguignon (Pessac, France)

Effect of endothelial cell organisation on hiPSC-CM maturation in a cardiac micro-tissue model

G. Friob (Paris, France)

Role of SERCA3 protein in alpha1-adrenoceptor-mediated calcium signaling in mouse aortic function

M. Toth (Orsay, France)

MASH-associated endothelial dysfunction in mice: is there NO effect?

J. Lallement (Woluwe-Saint-Lambert, Belgique)

Study of Vasorine Vascular Functions during Septic Shock

O. Tellier (Amiens, France)

Inositol-Requiring Enzyme 1 pathway and autophagy drive sequential response of endothelial cells to febrile range hyperthermia

SARS-CoV-2 infection leads to pulmonary vascular remodeling in transgenic mice expressing hACE2 in vascular cells

A. Frisdal (Paris, France)

Performance of intracoronary and intravenous ergonovine for diagnostic of vasospastic angina: a retrospective analysis using propensity matching

lun. 1 juil.
18:00 - 19:30

Genetic related HF

Posters commentés

Modérateur : J. Barc (Nantes, France)

Targeted mRNA sequencing helps to classify variants affecting splicing in Hypertrophic Cardiomyopathies

L. Rialland (Paris, France)

Genotypic and phenotypic analysis of 24 patients presenting MYPN variants

Intermediate filament synemin acts as a regulator of cell remodelling during cardiac hypertrophy

C. Gargano (Paris, France)

Three-dimensional Genome Architecture in Cardiac Muscle Cells: Pathophysiological Implications in Dilated Cardiomyopathy Caused by Mutations in A/C Lamins- and Dystrophin-Encoding Gene

Role of CASK protein in the regulation of adhesion complexes between cardiomyocytes

J. Barbès (Paris, France)

Depressed mitochondrial function in cardiomyopathy caused by LMNA gene mutation highlighted in patient-derived iPSC-CMs

J.S. Hulot (Paris, France)

Genetic testing impact on patients with hypertrophic cardiomyopathy: local registry study

Genetic testing impact on patients with dilated cardiomyopathy: a registry local study

Desmin: A potential modifier gene in Duchenne Muscular Dystrophy cardiomyopathy

lun. 1 juil.
18:00 - 19:30

Insuffisance cardiaque & Métabolisme

Posters commentés

Modérateur : L. Bertrand (Bruxelles, Belgique), J. Fauconnier (Montpellier, France)

The expression of the Wilms' tumor suppressor Wt1 in adult cardiomyocytes is involved in cardiomyocyte metabolism and its deletion worsen cardiotoxic damage induced by doxorubicin

S. Diaz del Moral (Nice, France)

Sodium myo-inositol cotransporter-1, SMIT1, promotes cardiac hypertrophy and fibrosis in pressure overloaded mouse hearts

Discovery of a key actor of cardiac pathological hypertrophy

The myo-inositol/SMIT1 axis in heart failure: a potential metabolic actor in the disease pathophysiology and clinical outcome

J. Cumps (Bruxelles, Belgique)

Interplay between cardiac O-GlcNAcylation and cardiac dysfunction in obese diabetic mice

J. Dron (Woluwe-Saint-Lambert, Belgique)

The cold receptor TRPM8, a new target against the aggravating effect of metabolic syndrome in heart failure with preserved ejection fraction

M. Wehbi (Bron, France)

Role of oxidative stress during obesity-induced cardiac remodeling in mice

Y. El Masri (Lille, France)

Consequences of maternal obesity on postnatal cardiac development

D. Farhi (Paris, France)

Chronic dioxin exposure aggravates endothelial damage and left ventricular diastolic dysfunction only in male obese mice

G. Berge (Créteil, France)

 **Mardi 2 juillet**

mar. 2 juil.
08:30 - 09:20

Communication inter-organes dans le développement de l'insu Appel à session cardiaque

Auditorium Pasteur Session

Modérateur : E. Belaidi (Lyon, France), L. Bertrand (Bruxelles, Belgique)

08:30 **Quand le foie parle au cœur**
J. Roncalli (Toulouse, France)

08:42 **Quand le rein parle au cœur**
N. Florens (Strasbourg, France)

08:54 **Quand le poumon parle au cœur**
C. Menuet (Marseille, France)

mar. 2 juil.
08:30 - 09:20

Origine et traitement interventionnel des cardiomyopathies Salle 2 Session

Modérateur : E. Berthelot (Le Kremlin-Bicêtre, France), F. Rochais (Marseille, France)

08:30 **Cardiomyopathies dilatées : quels critères et perspectives pour stratifier le risque ?**
E. Gandjbakhch (Paris, France)

08:42 **Etiologie des cardiopathies congénitales : du génome aux facteurs environnementaux**
S. Zaffran (Marseille, France)

08:54 **Nouveautés dans le traitement interventionnel des cardiopathies congénitales : l'avenir est déjà là !**
S. Hascoët (Le Plessis-Robinson, France)

mar. 2 juil.
08:30 - 09:20

Arrhythmias: from Bench to bedside

Salle 1 Young investigators

Modérateur : A. Maguy (Bern, Suisse)

Effect of rapid pacing on Purkinje-related ventricular arrhythmias after myocardial infarction

J. Charton (Pessac, France)

Activation of Exchange Proteins directly Activated by cAMP (EPAC) promotes electrophysiological remodeling and arrhythmogenic activity in human atrial cardiomyocytes

A. Boileve (Caen, France)

Genetic ablation of G protein-gated K⁺ channels (GIRK4) rescues cardiac conduction defects and reduces fibrosis in mouse model of Sinus Node Dysfunction

L. Talsi (Montpellier, France)

Potentiating the cardiac sodium channel in vivo towards a novel approach of therapy of SCN5A haploinsufficiency

M. Ferrand (Paris, France)

mar. 2 juil.
09:30 - 10:20

Cardiomyocyte differentiation and maturation

Salle 1 Session

Modérateur : G. Gilbert (Brest, France), J.S. Hulot (Paris, France)

09:30 Impact of Neurons on iPS-derived cardiomyocyte differentiation

A. Meli (Montpellier, France)

09:42 Cardiomyocyte sarcomere and T-tubule growth

09:54 Metabolic control of cardiomyocyte differentiation during embryogenesis

M. Théveniau-Ruissy (Marseille, France)

mar. 2 juil.
09:30 - 10:20 | **Mechanotransduction in valve diseases**
Salle 2 Session

Modérateur : R. Capoulade (Nantes, France), S. Germain (Paris, France)

09:30 | **Shear stress, an important component of the homeostasis and disease**
J. Vermot (Londres, Royaume Uni)

09:42 | **Extracellular matrix and intercellular communication**
E. Faurobert (Grenoble, France)

09:54 | **Piezo channel: a Nobel for the valve**
R. Peyronnet (Freiburg im Breisgau, Allemagne)

mar. 2 juil.
09:30 - 10:20 | **Ischémie reperfusion**
Auditorium Pasteur Young investigators

Modérateur : F. Ivanès (Chambray-lès-Tours, France), C. Arnaud (Grenoble, France)

Autologous mitochondrial transplantation as a strategy to prevent deleterious effects of peripheral ischemia-reperfusion
L. Boutonnet (Strasbourg, France)

Exploring sex specific differences in fibrosis and immune response to experimental myocardial infarction using single-cell RNA seq
T.E. Sakalli (Würzburg, Allemagne)

Intracellular Ca²⁺ profile of PBMCs as circulating prognosis markers after STEMI?

SEMA3A is a predictive biomarker of primary ventricular fibrillation complicating STEMI
C. Boiteux (Bron, France)

mar. 2 juil.
10:30 - 11:00 | **Pause & Visite de l'exposition & Posters**
Hall d'exposition Pause & Visite de l'exposition & Posters

mar. 2 juil.
11:00 - 11:50 | **Lipid nanoparticles as novel therapeutic approach for cardiovascular diseases**
Salle 1 Session

Modérateur : C. Vindis (Toulouse, France), S. Ben-Aicha (Londres, Royaume Uni)

- 11:00** **Delivery of mRNA to damaged myocardium by lipid nanoparticles**
P. Vader (Utrecht, Pays-Bas)
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- 11:12** **Use of lipid nanoparticles for in-vivo MRI imaging of atherosclerotic plaques**
Y. Yamakoshi (Zurich, Suisse)
-
- 11:24** **Nanoparticle therapy for vascular diseases**
E. van der Vost (Aachen, Allemagne)
-

mar. 2 juil.
11:00 - 11:50 | **Le meilleur de la recherche clinique en 2023**
Auditorium Pasteur Session

Modérateur : F. Ivanès (Chambray-lès-Tours, France), G. Bonnet (Pessac, France)

- 11:00** **DAPA-MI & DAPA ACT HF TIMI 68**
-
- 11:13** **SELECT**
J.S. Hulot (Paris, France)
-
- 11:26** **NOAH-AFNET-6 & ARTESIA**
S. Ninni (Lille, France)
-
- 11:39** **CLEAR**
G. Lemesle (Lille, France)
-

mar. 2 juil.
11:00 - 11:50 | **Nouvelles perspectives thérapeutiques pour la prise en charge de la décompensation cardiaque aiguë**
Salle 2 Session

Modérateur : T. Bochaton (Lyon, France), P. De Groot (Lille, France)

- 11:00** **Epidémiologie et prise en charge de la décompensation aiguë de l'insuffisance cardiaque**
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- 11:12** **Intérêt d'AngPTL4 dans le traitement de la décompensation aiguë de l'insuffisance cardiaque**
S. Germain (Paris, France)
-
- 11:24** **L'Inhibition de O-GlcNAcase dans la décompensation de l'Insuffisance Cardiaque Chronique**
P. Mulder (Rouen, France)
-

mar. 2 juil.
12:00 - 12:30 | **Clonal hematopoiesis of indeterminate potential & the risk of cardiovascular diseases**

Auditorium Pasteur Conférence internationale

Modérateur : J.S. Hulot (Paris, France)

12:00 | **Clonal hematopoiesis of indeterminate potential & the risk of cardiovascular diseases**
J. Fuster (Madrid, Espagne)

mar. 2 juil.
12:30 - 13:30 | **Déjeuner & Visite de l'exposition**

Hall d'exposition Déjeuner & Visite de l'exposition

mar. 2 juil.
13:30 - 14:20 | **Nouveaux développements dans la prise en charge des canalopathies**

Auditorium Pasteur Session

Modérateur : F. Brette (Montpellier, France), S. Ninni (Lille, France)

13:30 | **Apport de la génomique dans le syndrome de Brugada**
J. Barc (Nantes, France)

13:42 | **Immunothérapie pour le traitement du syndrome du QT-long**

13:54 | **Defibrillateur sous-cutané : Change-t-il la donne dans la prévention du risque de la mort subite ?**
C. Marquié (Lille, France)

mar. 2 juil.
13:30 - 14:20 | **Mécanismes moléculaires de la dysfonction endothéliale**

Salle 1 Session

Modérateur : S. Horman (Bruxelles, Belgique), A. Thomas-Zanetti (Lyon, France)

13:30 | **Importance du phénotype endothélial dans la thrombo-inflammation**
C. Lemarié (Brest, France)

13:42 | **Rôle de l'ARHGEF18 dans la perméabilité vasculaire**
A.C. Vion (Nantes, France)

13:54 | **Signalisation PI3K dans le maintien du phénotype endothélial, implications dans l'athérosclérose**
S. Gayral (Toulouse, France)

mar. 2 juil.
13:30 - 14:20

Autonomic nervous system: cardiovascular function under control

Salle 2 Session

Modérateur : D. Mika (Orsay, France), A. Maguy (Bern, Suisse)

13:30 **Cardiorespiratory control of blood pressure: a tricky balance**

13:42 **Modulation of autonomic nervous system in heart failure: friend or foe?**

13:54 **Cardiac neuromodulation for treatments of vaso-vagal syncope**

mar. 2 juil.
14:30 - 15:20

CMH : une bonne thérapie commencer par un bon diagnostic

Salle 1 Session

Modérateur : E. Berthelot (Le Kremlin-Bicêtre, France), N. Mewton (Bron, France)

14:30 **CMH : rôle de l'imagerie dans le diagnostic**

T. Le Tourneau (Nantes, France)

14:42 **Nouveautés thérapeutiques : des études fondamentales à la clinique**

N. Lamblin (Lille, France)

14:54 **Characterisation of NAD metabolism in congenital hypertrophic cardiomyopathies (HCM) using hiPSC-CMs**

A. Ruiz-Velasco (Paris, France)

mar. 2 juil.
14:30 - 15:20

Nouveautés dans la calcification valvulaire aortique

Salle 2 Session

Modérateur : G. Lemesle (Lille, France), J. Bellien (Rouen, France)

14:30 **Chimiotactisme : rôle de l'axe interleukine-8/CXCR2**

Y. Bennis (Amiens, France)

14:42 **Rôle des globules rouges dans l'hémorragie intrafeuillet valvulaire**

G. Caligiuri (Paris, France)

14:54 **Angiopoietin-2 as a potential biomarker predictive of aortic valve stenosis progression**

M. El Alami (Amiens, France)

mar. 2 juil.
14:30 - 15:20 | **Cancer therapy-related cardiac dysfunction**
Auditorium Pasteur Session

Modérateur : C. Fauvel (Rouen, France), D. Mika (Orsay, France)

14:30 | **Mechanisms of anthracycline-induced cardiotoxicity**
A. Ghigo (Torino, Italie)

14:42 | **Mechanisms shared between cancer and heart failure**
R. De Boer (Rotterdam, Pays-Bas)

14:54 | **Guidelines on cardio-oncology: key messages**

mar. 2 juil.
15:30 - 16:00 | **Pause & Visite de l'exposition & Posters**
Hall d'exposition Pause & Visite de l'exposition & Posters

mar. 2 juil.
16:00 - 16:50 | **Targeting the metabolism to avoid heart failure development**
Salle 1 Session

Modérateur : J. Fauconnier (Montpellier, France), D. Montaigne (Lille, France)

16:00 | **GLP1 – Obesity and heart failure**

16:12 | **Targeting ketone metabolic pathway**
D. Westenbrink (Groningen, Pays-Bas)

16:24 | **Targeting glucose-derived pathway**
C. Beauloye (Bruxelles, Belgique)

mar. 2 juil.
16:00 - 16:50 | **Récepteurs minéralocorticoïdes : une arme contre les pathologies cardiovasculaires**

Auditorium Pasteur Session

Modérateur : R. Gallet de Saint Aurin (Créteil, France)

16:00 Cibler la voie de l'aldostérone dans les pathologies cardiovasculaires

16:12 Rôle des récepteurs minéralocorticoïdes dans les pathologies cardiovasculaires et cardio-rénales

F. Jaisser (Paris, France)

16:24 In female weight-cycling mice, administration of the mineralocorticoid receptor antagonist finerenone during a phase of calorie restriction prevents the development of HFpEF

C. Frimat (Rouen, France)

mar. 2 juil.
16:00 - 16:50 | **L'ARNi, de la théorie à la pratique**

Salle 2 Session

mar. 2 juil.
17:00 - 17:30 | **L'inflammation et la fibrillation auriculaire-importance physiopathologique et potentiel thérapeutique**

Auditorium Pasteur Conférence GRRC

Modérateur : S. Ninni (Lille, France)

17:00 L'inflammation et la fibrillation auriculaire-importance physiopathologique et potentiel thérapeutique

S. Nattel (Montreal, Canada)

mar. 2 juil.
17:30 - 19:00

Insuffisance cardiaque & Cibles thérapeutiques

Posters commentés

Modérateur : E. Belaidi (Lyon, France), A. Maguy (Bern, Suisse)

Impact of a regenerative treatment in Lmna-related dilated cardiomyopathies

Impact of curative lactate infusion on cardiovascular function in rat sepsis model

Dapagliflozin, an inhibitor of sodium/glucose cotransporter 2, modulates intracellular calcium exchanges in rat isolated left ventricular cardiomyocytes

O. Benouna (Tours, France)

GRK2 inhibition by paroxetine prevents intermittent hypoxia-induced worsening of ischemic cardiomyopathy

E. Billoir (Grenoble, France)

Finerenone improves HFpEF in obese female mice and slows down its acceleration after a postmenopausal transition

Combined Dapagliflozin and Eplerenone treatment improve cardiorenal function in rats with chronic kidney disease

Y. Stephan (Mont-Saint-Aignan, France)

Exchange protein directly activated by cAMP 1, promotes iron-mediated cardiomyocyte death

Exacerbation in rats with emphysema induces cardiovascular dysfunction by activating eosinophils

C. Roure (Montpellier, France)

Blocking interleukin-1 β transiently limits left ventricular dilation and modulates cardiac lymphangiogenesis in a mouse pressure-overload model

mar. 2 juil.
17:30 - 19:00

IC Signalling, biomarkers, models
Posters commentés

Modérateur : G. Gilbert (Brest, France), F. Pinet (Lille, France)

Development of a murine model to investigate mechanisms of cardiac reverse remodeling

T. Moore-Morris (Montpellier, France)

Role of the NLRP3 inflammasome in myocarditis induced by immune checkpoint inhibitors cancer immunotherapy

Type 1 diabetes unmasks cardiotoxicity induced by doxorubicin

Analysis of cardiac dysfunction in a preclinical murine model of immune-mediated cardiotoxicity

Characterization of the cardiac Osr1+ cells in normal and ischemic hearts

M. Gandon-Renard (Paris, France)

LIPCAR levels in plasma-derived extracellular vesicles is associated with left ventricle remodeling post-myocardial infarction

CARDIOFLIPS, an induced pluripotent stem cell-derived cardiomyocyte model to study clusterin

M. Huyvaert (Lille, France)

Regulation of miR-199a expression by AMPK in cardiac tissues

D. Marchand (Woluwe-Saint-Lambert, Belgique)

Ca²⁺ handling alteration in a rat model of right ventricular failure

P. Le Gourriérec (Orsay, France)

Mechanisms of cardiac immune tolerance in an Experimental model of Autoimmune Myocarditis

Cancer therapy-related cardiac dysfunction (CTRCD) after radiation therapy for breast cancer: results of the French BACCARAT study

M.K.F. Honaryar (Villejuif, France)

Hemodynamic monitoring with thoracocardiography: validation by beta-adrenergic modulation in anesthetized rats

L. Fontana-Pires (Lyon, France)

mar. 2 juil.
17:30 - 19:00

Vaisseaux et hypertension

Posters commentés

Modérateur : F. Coste (Avignon, France), C. Vindis (Toulouse, France)

Long-term blood pressure variability and risk of age-related macular degeneration in older adults: the ALIENOR study

B. Kayembe Mulumba (F-33000 Bordeaux, France)

Circulating dipeptidyl peptidase 3 modulates systemic and renal hemodynamics through angiotensins cleavage

F. Azibani (Paris, France)

Implication of mitochondrial dynamics in ascending thoracic aortic aneurysm and dissection

Modulation of calcium signaling on demand to decipher the molecular mechanisms of primary aldosteronism

Autonomic Profiling in Primary Autonomic Failure : Insights from 30 cases

S. El-Mhadi (Rabat, Maroc)

Assessment of the Impact of a Personalized Online Training Program on Quality of Life, Physical Capacity, and Hemodynamic Parameters in Patients with Marfan Syndrome: A Randomized Controlled Study

S. Jouini (UNIVERSITE PARIS, France)

Study on the impact of improved walking on peripheral arterial flow

Evaluation of the knowledge, attitudes and practices of nursing staff on the management of hypertension during pregnancy in the city of Kankan, 2nd administrative region of Guinea

Effect of environment and measurement conditions on blood pressure during self-metering blood pressure

Post Stroke Sleep Apnea: The Effect of Intermittent Hypoxia on Cerebrovascular Recovery

B. El Amine (Grenoble, France)

mar. 2 juil.
17:30 - 19:00

Cardiopathies congénitales

Posters commentés

Modérateur : N. Rosenblatt-Velin (Lausanne, Suisse)

Genetics of Congenitally Corrected Transposition of the Great Arteries: next generation sequencing shows a mutation load effect for 156 genes involved in cardiac patterning

Impact of a centre and home-based cardiac rehabilitation program on the quality of life of teenagers and young adults with congenital heart disease: The QUALIREHAB randomized controlled trial

Evaluation of cancer screening coverage in adults with congenital heart disease

M. Albertini (Paris, France)

Prenatal screening for congenital heart disease: which interest in a country with limited resources

Brugada Syndrome-associated Transcriptomic Remodeling Occurs Throughout in vitro Cardiac Development

T. Stervinou (Nantes, France)

Unraveling Cardiac Development through O-GlcNAcylation: A new perspective

A. Vergnaud (Nantes, France)

Developmental origins of Carney complex syndrome related cardiac defects: Role of the protein kinase A

mar. 2 juil.
17:30 - 19:00

Aging

Posters commentés

Modérateur : J.S. Hulot (Paris, France)

Consequences of aging on the adaptative capacity of *Microcebus murinus* heart to stress

M. Marrot (Montpellier, France)

Impact of dysregulated mitochondrial dynamics on mitochondrial DNA alterations and cardiac function during aging

C. Gabillard-Lefort (Angers, France)

Pre participation cardiovascular screening in runners : survey of athletes of the grand raid 2023 in reunion island

The role of oxidative stress in mitochondrial DNA instability, senescence and inflammation in heart failure

L. Beucher (Angers, France)

The genetic architecture of natural variations of cardiac aging in fly : new insights in cardiac senescence

K. Audouin (Marseille, France)

mar. 2 juil.
17:30 - 19:00

Ischémie reperfusion & Recherche clinique

Posters commentés

Modérateur : T. Bochaton (Lyon, France), F. Ivanès (Chambray-lès-Tours, France)

Trends in coronary mortality in incident and recurrent cases from 2000 to 2018 in France

Trends in acute coronary syndrome subtypes in France: results from the MONICA registries over the period 2009-2018

Minithoracotomy under direct vision for LIMA to LAD off-pump bypass offers good short-term results. A series of 102 patients

Incidence of stroke and clinical outcomes in people with type 2 diabetes: a real-world database study in France

L. Batel (Puteaux, France)

The effect of early cardiopulmonary rehabilitation combined with melatonin supplementation in patients with myocardial infarction treated by a primary percutaneous coronary intervention

In the shadows of myocardial infarction: insights from 50 cases of MINOCA

S. El-Mhadi (Rabat, Maroc)

The CHA₂DS₂-VASC score and prediction of the ischemic stroke risk after an acute coronary syndrome?

Qualitative study on the experience of patients who have completed a cardiac telerehabilitation program

Impact of revascularization strategy of non-infarct-related artery lesions in patients with ST-elevation myocardial infarction on renal function

E. Lagha (Marsa, Tunisie)

Epidemiological, diagnostic, therapeutic and evolutionary aspects of late-presenting ST segment elevation myocardial infarction (STEMI): about 50 cases collected in four cardiology departments in DAKAR

mar. 2 juil.
17:30 - 19:00

Coeur et métabolisme

Posters commentés

Modérateur : A. Thomas-Zanetti (Lyon, France)

O-GlcNAcylation levels remain stable regardless of the anesthesia procedure in healthy rats

M. Bouaud (Nantes, France)

Impact of a switch diet after high-fat diet induced obesity combined with aging on cardiac function

T. Delmont (Créteil, France)

The role of protein acetylation in the development of cardiac and muscular insulin-resistance induced by obesogenic diets

E. Stukkens (Woluwe-Saint-Lambert, Belgique)

Microalgae extracts blunt dietary lipids oxidation of a western meal: potential impact on the cardiovascular risk

L. Petit (Avignon, France)

Impact of electrical field stimulation of neonate rat cardiomyocytes on AMPK signaling and NAD metabolism

The binding of kaempferol to MICU1 subunits in the presence of calcium enhances the biophysical properties of the MCU complex

E. Lamonzie (Montpellier, France)

A sex-dependent role for α -tubulin acetylation on Lys40 in diabetic cardiomyopathy development

M. De Loof (Bruxelles, Belgique)

Photobiomodulation restores insulin sensitivity impairment induced by chronic intermittent hypoxia

S. Paradis (Grenoble, France)

Identification of two metabolic regulators stimulating cardiomyocyte proliferation, potential targets for cardiac regeneration

Y. Kovacs (Marseille, France)

Cardiomyocytes-derived from NAMPT deficient human induced pluripotent stem cells exhibit reduced NAD pools and contractility dysfunction

mar. 2 juil.
17:30 - 19:00

Valvulopathies aortiques

Posters commentés

Modérateur : J. Bellien (Rouen, France)

Modelling chronic kidney disease-induced cardiovascular calcifications in rats using an adenine/phosphate-enriched diet

G. Blot (Amiens, France)

New insights in osteogenic differentiation of human valvular interstitial cells : implication of Transient Receptor Potential Melastatin 4 (TRPM4)

M. Aize (Caen, France)

Inflammation and Macrophages Recruitment in non-syndromic Mitral Valve Dystrophy: New insights from the Filamin-A Knock-In Rat Model

B. Le Vely (Nantes, France)

Enhancer of zeste homolog 2 (EZH2) as a new therapeutic target to prevent indoxyl-sulfate-induced aortic valve calcification

N. Issa (Amiens, France)

Hemodynamics of proximal coronary lesions in patient undergoing aortic valve replacement : Patient-specific in silico study

Transcatheter Aortic Valve Implantation using the SAPIEN 3 Valve to treat Aortic Regurgitation: The French multicentre S3AR Study

EZH2 pharmacological inhibition reduces CAVD patients monocytes-induced human VIC inflammation, osteogenesis and calcification

L. Di Maria (Rouen, France)

Can rheumatic significant mitral stenosis be a cause of paradoxical low-flow, low-gradient in patients with severe aortic stenosis and preserved LVEF? Insights from 115 patients

S. El-Mhadi (Rabat, Maroc)

High forward stroke volume is associated with disproportionate left ventricular dilatation in mitral valve prolapse

Promising long-term surgical outcomes of aortic valve replacement in patients with important isolated aortic regurgitation within severe left ventricular dysfunction

Z. Agoumy (Rabat, Maroc)

The role of hypercholesterolemia and PCSK9 in the early processes leading to structural bioprosthetic degeneration

M. Sallé (Nantes, France)

mar. 2 juil.
17:30 - 19:00

Ischémie reperfusion & Cardioprotection

Posters commentés

Impact of storage temperature on the development of different cell death pathways and cardiac functions

M. Védère (Bron, France)

Impact of intermittent hypoxia and sex on myocardial infarction in a mouse model of sleep apnea

B. Blachot-Minassian (Grenoble, France)

Phosphorylation of SERCA2 at the heart of cardioprotection in human-derived cardiomyocytes

L. Boulogne (Bron, France)

Pathological remodelling of the left ventricle and emerging roles for the P2X4 receptor: a molecular switch for cellular stress

A.V. Vinhais Da Silva (Tours, France)

Modulation of NAD levels following ischemia/reperfusion injury in cardiomyocytes

I. Oukili (Orsay, France)

Targeting T-tubules for treatment of myocardial infarction

H. Perdreau-Dahl (Angers, France)

Incidence and predictors of in-hospital complications after myocardial infarction in contemporary clinical practice: findings from the FRENCHIE myocardial infarction cohort

G. Lemesle (Lille, France)

Left ventricle unloading during acute myocardial infarction-related cardiogenic shock and reperfusion

Cardiac tele-rehabilitation in France: first lessons from the Walk Hop program

PPAR β/δ preconditioning increased the cardioprotective effects of human MSC in IR injury

S. Barrere-Lemaire (Montpellier, France)

mar. 2 juil.
17:30 - 19:00

Rythmologie 2
Hall d'exposition Posters commentés

Modérateur : V. Algalarrondo (Paris, France), D. Mika (Orsay, France)

Pathogenic Mechanisms of RRAD p.R211H Mutation in Brugada Syndrome

C. Jajkiewicz (Nantes, France)

Impact of an inflammation-resolution promoter, resolvin-D1, in the treatment of atrial fibrillation associated with a myosin light chain 4 (Myl-4) mutation

Pause dependent left bundle branch block and infra-his block : a case report

U. maure (Eaubonne, France)

Detection of atrial septal aneurysm on ECG based on machine learning algorithm

Modulation of the heart rhythm by RyR2 phosphorylation

S. Teboull (Orsay, France)

Analysis of mechanical and electrical cardiac responses to prolonged cold-water swimming

V. Faivre-rampant (Ljubljana, Slovénie)

Ca²⁺ handling in catecholaminergic polymorphic ventricular tachycardia (CPVT) linked to RyR2-R169Q mutation

Remote monitoring of cardiac implantable devices in children: characteristics and outcome in a retrospective single centre contemporary study. TelePaedia study

Influence of direct oral anticoagulants on rates of oral anticoagulation for atrial fibrillation

Prevalence and factors associated with severe obstructive sleep apnea in atrial fibrillation patients

O. Souhir (Tunis, Tunisie)

 Mercredi 3 juillet

mer. 3 juil.
09:00 - 09:50

Nouvelles cibles de la protection vasculaire
Auditorium Pasteur Session

Appel à session

Modérateur : E. Belaidi (Lyon, France), C. Lemarié (Brest, France)

09:00 **AMPk et protection vasculaire**
S. Horman (Bruxelles, Belgique)

09:12 **Rôle des récepteurs endothéliaux purinergiques dans la protection vasculaire**
L.O. Martinez (Toulouse, France)

09:24 **PCSK9 as a new player in intermittent hypoxia-induced vascular alterations**
M.A. Reveyaz (Saint-Martin-d'Hères, France)

mer. 3 juil.
09:00 - 09:50

Session "multi sponsors"
Salle 2 Session

Olink Proteomics. Revealing the truth of human disease, protein by protein

A proteomic approach of the cardiac eNOS interactome in cytosolic and mitochondrial subfractions

C. Reboul (Avignon, France)

mer. 3 juil.
09:00 - 09:50

Lipides, métabolisme

Salle 1 Young investigators

Modérateur : L. Bertrand (Bruxelles, Belgique), G. Lemesle (Lille, France)

Postnatal overfeeding influences both cardiomyocyte proliferation and lipid composition in juvenile mice

M. Josse (Dijon, France)

Does the adipocyte β 3-adrenergic receptor influence myocardial remodeling?

L. Cascarano (Woluwe-Saint-Lambert, Belgique)

Hyperlipidemia and aortic valve calcification: effect of therapeutic PCSK9 inhibitors on the pro-calcifying phenotype of valvular interstitial cells in vitro

C. Roulin (Paris, France)

SMIT1 as a new potential target in heart failure with preserved ejection fraction

C. Baufays (Bruxelles, Belgique)

mer. 3 juil.
10:00 - 10:50

Hypertension Pulmonaire (HTP) : du fondamental au traitement

Salle 2 Session

Modérateur : F. Coste (Avignon, France)

10:00 Physiopathologie de l'HTAP : de la découverte de la voie BMPR2 à l'innovation thérapeutique

C. Guignabert (Le Kremlin-Bicêtre, France)

10:12 Traitement de l'HTAP : ce qu'apporte le Sotatercept aux principes actuels de traitement

N. Lamblin (Lille, France)

10:24 HTP associée aux cardiopathies gauches : difficultés phénotypiques et hypothèses de traitement

F. Bauer (Rouen, France)

mer. 3 juil.
10:00 - 10:50 | **Immunomodulation dans les maladies cardiovasculaires**
Salle 1 Session

Modérateur : R. Gallet de Saint Aurin (Créteil, France), C. Lemarié (Brest, France)

10:00 | **Place de la réponse immuno-inflammatoire en post-infarctus**
H. Ait-Oufella (Paris, France)

10:12 | **Place de la colchicine dans la prise en charge de l'athérome**

10:24 | **IL37-promotes resolution of the RHD-induced atrial inflammatory status and atrial fibrillation**
O. Neuilly (Montréal, Canada)

mer. 3 juil.
10:00 - 10:50 | **Diabète, athérosclérose et remodelage**
Auditorium Pasteur Young investigators

Modérateur : C. Vindis (Toulouse, France)

Role of O-GlcNAcylation in hyperglycemia-induced vascular dysfunctions
L. Petit (Avignon, France)

Inhibition of vascular permeability by angiotensin-like 4 improves left ventricular function in a pig model of heart failure with preserved ejection fraction

IL-1 β may contribute to NGF-induced alterations in pulmonary hypertension

Role of the Ferroptosis Suppressor Protein-1 (FSP1) in Macrophages in Atherosclerosis

mer. 3 juil.
11:00 - 11:30 | **Pause & Visite de l'exposition & Posters**
Hall d'exposition Pause & Visite de l'exposition & Posters

mer. 3 juil.
11:30 - 12:20 | **Sleep disturbance and cardiac diseases**
Salle 1 Session

Modérateur : C. Arnaud (Grenoble, France), S. Fry (Lille, France)

11:30 **Sleep-disordered breathing and cardiac arrhythmias: mechanistic insights and clinical implications**

11:42 **Sleep-disordered breathing and ischemic cardiomyopathy: a vicious circle. The clinician point of view**

11:54 **Sleep-disordered breathing and ischemic cardiomyopathy: a vicious circle. Evidence from basic research**
M. Détrait (Toulouse, France)

mer. 3 juil.
11:30 - 12:20 | **Les meilleurs PHRC français de ces dernières années**
Salle 2 Session

Modérateur : V. Algalarrondo (Paris, France), G. Caligiuri (Paris, France)

11:30 **AQUATIC**
G. Lemesle (Lille, France)

11:40 **FLOWER-MI**

11:50 **ARGO**
T. Bochaton (Lyon, France)

12:00 **ARAMIS**
M. Kerneis (Paris, France)

12:10 **ARGONAUT**

mer. 3 juil.
11:30 - 12:20 | **Fibrillation atriale : avoir le bon rythme**
Auditorium Pasteur Session

Modérateur : A. Maguy (Bern, Suisse), S. Nattel (Montreal, Canada)

11:30 | **Déclin cognitif et fibrillation atriale**
O. Hanon (Paris, France)

11:42 | **Optimisation de la prise en charge de la FA : exemple lillois**
S. Ninni (Lille, France)

11:54 | **Role of inflammation and macrophages in the formation of the atrial cardiomyopathy associated with obesity**

mer. 3 juil.
12:30 - 13:30 | **Déjeuner & Visite de l'exposition**
Hall d'exposition Déjeuner & Visite de l'exposition

mer. 3 juil.
13:30 - 14:00 | **Nutrition du sportif : au coeur de la performance ?**
Auditorium Pasteur Conférence Jacques Puel

Modérateur : B. lung (Paris, France)

13:30 | **Nutrition du sportif: au coeur de la performance?**
X. Bigard (Aigle, Suisse)

mer. 3 juil.
14:00 - 15:00 | **Remise des Prix & Clôture du congrès**
Auditorium Pasteur Session officielle

14:00 | **Blind test musical "Coeur"**

14:30 | **Remise des Prix & Clôture du congrès**